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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/599,057	06/21/2000	Bong-Woo Lee	39647/DBP/Y35	6284

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EXAMINER

DAY, MICHAEL HENRY

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 12/10/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/599,057

Applicant(s)

B. Lee, et al.

Examiner

Michael Day

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some\* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_
- 18) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Referring to claim 1, the specification as filed fails to disclose where the body of the CRT ends and the cone begins. Consequently, it is unknown as to how the applicant intended to measure the value of L. As the location of the boundary between the body of the CRT and the cone is arbitrary, the length L is also arbitrary. Furthermore, the intended meaning of the phrase "deflection power reducing shape" has not been defined. It is unknown as to whether the applicant is referring to the radius to the arc A, to the length of the arc, or to the length of the projection of the arc along the axis Z. As the prescribed shape of the CRT can not be determined, one skilled in the art, could not make a CRT of the present invention without undue experimentation.

Claim 2 is rejected for its dependency from claim 1. Furthermore, the intended meaning of the phrase "a shape of an arc" has not been defined. It is unknown as to whether the applicant is

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referring to the radius to the arc A, to the length of the arc, or to the length of the projection of the arc along the axis Z.

Claim 3 is rejected for its dependency from claim 1. Furthermore, the specification fails to disclose how, or in what manner, the variation in height is to be measured. Consequently, it is unclear as to how an average value in the variation in height is to be calculated.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 1, it is unclear as to where the body of the CRT ends and the cone begins. Consequently, it is unknown as to how the applicant intended to measure the value of L. As the location of the boundary between the body of the CRT and the cone is arbitrary, the length L is also arbitrary. Furthermore, the intended meaning of the phrase “deflection power reducing shape” has not been defined. It is unknown as to whether the applicant is claiming the radius to the arc A, to the length of the arc, or to the length of the projection of the arc along the axis Z. In addition, a range of length is generally interpreted as a length bound between two values. That is to say,  $0.25 \times L$  does not constitute a range of length.

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Claim 2 is rejected for its dependency from claim 1. Furthermore, the intended meaning of the phrase "a shape of an arc" has not been defined. It is unknown as to whether the applicant is referring to the radius to the arc A, to the length of the arc, or to the length of the projection of the arc along the axis Z.

Claim 3 is rejected for its dependency from claim 1. Furthermore, it is unclear as in what manner the variation in height is to be measured. Consequently, it is unclear as to how an average value in the variation in height is to be calculated.

5. Due to the outstanding rejections of the claims under 35 U.S.C. 112, first and second paragraph, no determination of patentability over prior art can be made at this time.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

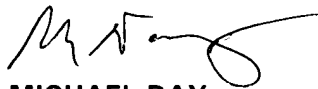
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Day whose telephone number is 703/305-4941. The examiner can normally be reached on Monday-Friday, from 8:00 A.M. to 5:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel, can be reached by phoning 703/305-4794. The Fax phone number is 703/308-7382.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is 703/308-0956.

December 5, 2002

A handwritten signature in black ink, appearing to read 'Michael Day', with a stylized flourish at the end.

**MICHAEL DAY**  
**PRIMARY EXAMINER**  
**GROUP 2870**